

Docket No. 282051US0PCT

10/563305
IAP20 Rec'd PCT/PTO 04 JAN 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Takeshi WATASE, et al.

SERIAL NO: New U.S. PCT Application Based on PCT/JP04/09872

GAU:

FILED: Herewith

EXAMINER:

FOR: RESIN-COATED METAL SHEET

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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204563305

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

282051US0PCT

Serial No. 204563305
New U.S. PCT Application
Based on PCT/JP04/09872

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Takeshi WATASE, et al.

FILING DATE

Herewith

GROUP

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|---------------------|----|--------------------|------|------|-------|--------------|-------------------------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
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| | AI | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION | |
|--|----|--------------------|----------|-------------------------------|-------------|----|
| | | | | | YES | NO |
| | AJ | 6-97691 | 04/08/94 | JP (equivalent of US 5539148) | | NO |
| | AK | 6-140787 | 05/20/94 | JP (equivalent of US 5455116) | | NO |
| | AL | 2002-228085 | 08/14/02 | JP | | NO |
| | AM | 2002-226783 | 08/14/02 | JP | | NO |
| | AN | 2001-18322 | 01/23/01 | JP | | NO |
| | AO | 11-261270 | 09/24/99 | JP | | NO |
| | AP | 2000-200990 | 07/18/00 | JP | | NO |
| | AQ | 2002-111276 | 04/12/02 | JP | | NO |
| | AR | 2001-274587 | 10/05/01 | JP | | NO |
| | AS | 3-120378 | 05/22/91 | JP | | NO |
| | AT | 2002-363771 | 12/18/02 | JP | | NO |
| | AU | 10-330657 | 12/15/98 | JP | | NO |
| | AV | 2002-12795 | 01/15/02 | JP | | NO |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AW | |
| | AX | |
| | AY | |
| | AZ | <input type="checkbox"/> Additional References sheet(s) attached |

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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STATEMENT OF RELEVANCY

- 1) References AJ-AO have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) References _____ have been cited in the corresponding _____ Search Report. A copy of these references is being submitted herewith.
- 3) References AP-AV are discussed in the specification. A copy of these references is being submitted here with.
- 4) References _____ are additional prior art known to Applicant. A copy of these references is being submitted herewith.

AP JP 2000-200990

PROBLEM TO BE SOLVED: To obtain a high corrosion resistant microwave absorber, whose produce costs are made low and whose corrosion resistance is superior, by a method wherein soft magnetic powders which are composed of an Fe-based alloy, containing specific wt.% of Cr are dispersed in a rubber or a resin.

SOLUTION: In this microwave absorber 1, soft magnetic powders 2 are dispersed in a rubber (or a resin) 4. In this case, the powders 2 are made flat, and they are dispersed in the rubber (or the resin) 4 in such a way that their major-axis direction is nearly at right angles to the propagating direction of electromagnetic waves P. In this way, their microwave absorbing capability is enhanced so that this is preferable in a region in which a frequency is comparatively low. In addition when the soft magnetic powders 2 are dispersed uniformly in the rubber (or the resin) 4 in such a way that they do not come into contact with each other, it is preferable that their microwave-absorbing capability is enhanced in the same manner, and their insulating property is enhanced. The soft magnetic powders are composed of powders of an Fe-based alloy, which contains 5 to 35 wt.% of Cr. If the Cr is less than 5 wt.%, their corrosion resistance is lowered when they are formed as a sheet or the like. If the Cr exceeds 35 wt.% their saturation magnetic flux density is lowered, and the cost of the microwave absorber 1 increases.

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STATEMENT OF RELEVANCY

AQ JP 2002-111276

PROBLEM TO BE SOLVED: To provide as electromagnetic wave absorber having reflection-attenuation peaks easily and surely agreeable with target frequencies.

SOLUTION: The electromagnetic wave absorber 1 comprises an insulative sheet 2 and a soft magnetic metal powder 2 buried in this sheet 2. The sheet is of a thermosetting resin e.g. epoxy resin. Reflection attenuation peaks on a plane wave of electromagnetic waves W perpendicularly incident on the sheet 2 are set at target frequencies e.g. over 20 GHz, and a target attenuation quantity can be ensured at the target frequencies.

AR JP 2001-274587

PROBLEM TO BE SOLVED: To provide an electric wave absorbing body which is excellent in electric wave absorbing characteristics at GHz band without changing kind or composition of a loss material while designing for thinner type is easy, wherein frequency band and width are designed freely than before.

SOLUTION: The electric wave absorbing body comprises an electric wave absorbing layer 1 and an electric wave reflection layer 3 laminated together. The electric wave absorbing layer 1 is formed from a base material 11 of synthetic resin material into which flakes of powder 12 of particle size 10-50 μ m comprising stainless steel SUS430 is mixed and dispersed. The flacks of powder 12 is provided by flattening the globular powder, obtained by water atomization method, in attriter process, with the stainless steel SUS430 as material. The electric wave reflection layer 3 is formed of, for example, an aluminum plate which is a conductive material.

AS JP 3-120378

PURPOSE: To produce a far infrared radiation sheet excellent in workability by chemically treating a Zn-Ni alloy plated steel sheet in an aqueous solution of phosphoric acid and hydrogen peroxide and successively in an aqueous solution of Cr and then forming a black acrylic resin film of specific thickness on the above.

CONSTITUTION: A Zn-Ni alloy plated steel sheet containing $\geq 5\%$ Ni in the uppermost layer is chemically treated in an aqueous solution of $\leq \text{pH}3$ in which 1-20% phosphoric acid and 0.5-10% hydrogen peroxide are dissolved, by which a black film consisting of ZnO and zinc phosphate containing metallic Ni and NiO is formed.

Subsequently, this steel sheet is chemically treated in an aqueous solution of less than or equal to pH1.5 containing Cr by 1-40g/l, by which a coarse zine phosphate crystal part on the surface layer of the film is dissolved and removed and a chromate film is formed.

Then, a black acrylic resin film is formed on the steel sheet surface to 0.1-5 μ m thickness. It is preferable that this film contains black pigment by 0.1-10 pts.wt. for 100 pts.wt. of

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STATEMENT OF RELEVANCY

AS JP 3-120378 cont.

resin. By this method, the far infrared radiation sheet having superior radiation characteristics and excellent in workability can be obtained.

AT JP 2002-363771

PROBLEM TO BE SOLVED: To provide a black bright material which has a satisfactory black coating color, and also has high brightness.

SOLUTION: In the black bright material 20, a black nickel layer 12 has been formed on at least one side of a base material 10. A reducing agent and the base material 10 are charged to a nickel plating bath, and nickel plating is applied to the surface of the base material 10. Next, the surface of the nickel plated layer is subjected to etching with a chlorine based chemical, so that the nickel plated layer is blackened. Thus, the black nickel layer 12 is formed on the base material 10.

AU JP 10-330657

PROBLEM TO BE SOLVED: To provide a new metallic coating material without remarkable orientation unevenness of a metallic pigment and a method for forming plural layered coating films using the same.

SOLUTION: This metallic coating material (A) contains metallic pigment covering the surface of aluminum flakes in the black color in a degree not losing a glossy appearance. This method for forming plural layered coating films uses the metallic coating material A as a metallic coating material in forming plural layered coating films by coating metallic coating material and clear coating material. In forming plural layered coating films by coating colored coating material, metallic coating material and clear coating material in turn, the metallic coating material is used A as the metallic coating material.

AV JP 2002-12795

PROBLEM TO BE SOLVED: To provide a method of manufacturing a modified pearl gray pigment having a sufficient amount of light reflection and a sufficient flip-flop effect (an effect of varying colors depending on the angle to be seen) and used in high brightness coating films with high surface strength.

SOLUTION: The method of manufacturing a modified iridescent luster pigment comprises allowing a scaly pearl gray pigment to settle in a mixed solution of a resin and a solvent, separating and setting the settlings, and the powdering the resulting settlings. Further, the high brightness coating material comprises 1.0 pt.wt. modified pearl gray pigment obtained by the above manufacturing method, less than or equal to 1.0 pt.wt. coating resin, and 1.0-100.0 pts.wt. solvent as the major components.